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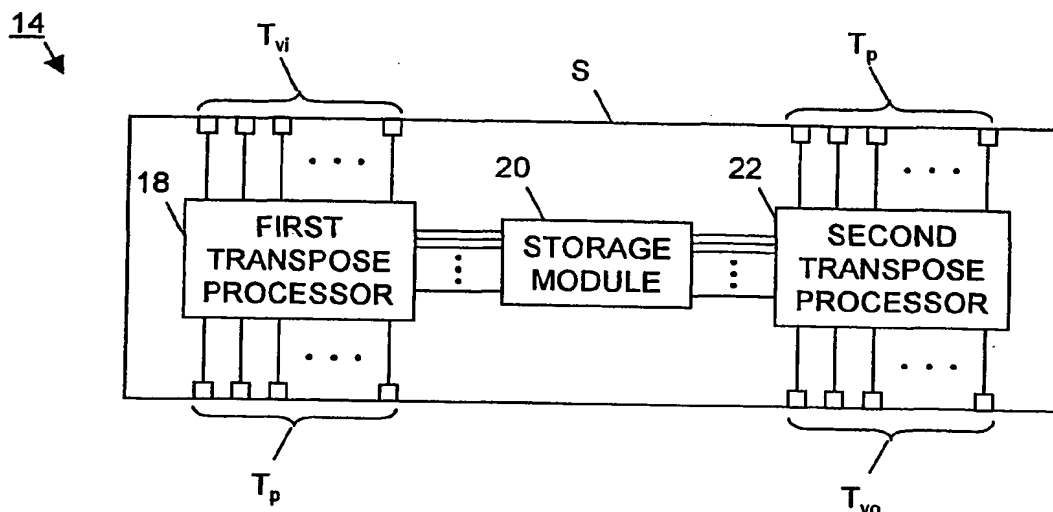
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(54) Title: APPARATUS FOR RE-ORDERING VIDEO DATA FOR DISPLAYS USING TWO TRANSPOSE STEPS AND STORAGE OF INTERMEDIATE PARTIALLY RE-ORDERED VIDEO DATA



(57) Abstract: A generic apparatus (14) re-orders video data for various types of displays, such as plasma discharge panels (PDPs), digital micro-mirror devices (DMDs), liquid crystal on silicon (LCOS) devices, and transpose scan cathode ray tube (CRT) displays. In one embodiment, the apparatus (14) includes a first programmable transpose processor (18), a memory (20, 120), and a second programmable transpose processor (22, 122) fabricated as a single IC unit.

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